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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERC

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PTO/SB/01		Attorney Docke	et Number 1	256-00929	
(8/96)		First Named In	ventor H	lector F. DeLuca	
DECLARATION			COMPL	ETE IF KNOWN	
Declaration OR	Declaration	Application Nu	mber 1	10/722,858	
☐ Submitted with 🖾	Submitted after	Filing Date		November 26, 2003	
Initial Filing	Initial Filing	Group Art Unit		1621	
_	•	Examiner Nam			
As a below named inventor, I hereb	y declare that:				
·	-	ara aa atatad balaw r	out to my name		
My residence, post office address,					
I believe I am the original, first and plural names are listed below) of entitled:					
Synthesis of A-Ring Syntho	n of 19-Nor-1α	ι,25-Dihydroxyvitar	min D ₃ from (D)-Glucose	
		(Title of the Inventio	n)		
the specification of which is attached hereto					
OR		····			
☑ was filed on (MM/DD/YYYY)	11/26/2003	as Ur	nited States App	lication Number or PC	ET
International Number 10/72 (if applicable).	2,858 a	ind was amended on	(MM/DD/YYYY)	
I hereby state that I have reviewed amended by any amendment speci	and understand fically referred to	the contents of the a	above identified	specification, includir	ng the claims, as
I acknowledge the duty to disclose continuation-in-part applications, mand the national or PCT internation	aterial information	on which became av	ailable between		
I hereby claim foreign priority bene				r 8365(b) of any forei	on application(s)
for patent, inventor's or plant breed					
least one country other than the U					
any foreign application for patent, i					
filing date before that of the applica					
		oreign Filing Date	Priority Not	Copy At	tached?
Application Number(s)		(MM/DD/YYYY)	Claimed	YÉS	NO
☐ Additional foreign application nu					
I hereby claim the benefit under T below.	itle 35, United S	States Code §119(e)	of any United S	States provisional app	olication(s) listed
Application Number(s)	Filing Date	e (MM/DD/YYYY)	Addition	nal provisional	
, approaction trainborto,	g Date			ion numbers are	
				n a supplemental	
				sheet attached	
			hereto.	/	

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I hereby claim the bene international application the claims of this app provided by the first pa material to patentability date of the prior applica	n designated the lication is not dis ragraph of Title 3 vas defined in Titl	United States sclosed in the 5, United State 187, Code of the 187, Code of 188, Cod	s of Ame e prior tes Code of Federa	erica, list United S e §112. al Regula	ted be States I acki ations	elow an of PC nowledo §1.56	d, insofa T Interr ge the d which b	ar as t nationa uty to ecame	he subjed I applica disclose i	ot matter of each of tion in the manner nformation which is
U.S. Parent Application			Pa	rent Filir	ng Da	te	аррион.			nt Number
Number				MM/DD/\	1111	,			(if applic	able)
☐ Additional U.S. or Pl As a named inventor, I all business in the Pate	hereby appoint t	he following a	attorney	(s) and/o						
Name	Regist			Name	e				Registra	ation
Daniel D. Fetterley	Num 20.3		lasas	- D V					Numb	
George H. Solveson	25,9			h D. Kub y S. Soko					40,68 35,68	
Gary A. Essmann	29,3	376	Peter	T. Holse	n				54,18	30
Thomas M. Wozny Michael E. Taken	28,9 28,7			T. Olejn n L. Falk					54,85 27,70	
Joseph J. Jochman, Jr.			VVIIIIai	II L. I dik	•				21,10) 9
☐ Additional attorney(s	s) and/or agent(s)									
☑ Please direct all corr Address Andrus, Sce	respondence to: eales, Starke & Sa		omas M	. Wozny	, Reg	. No. 29	9,822			
	isconsin Avenue,									
City Milwaukee	,	State	Wisco	nsin	T	Zip	53202-4	1178		
Country United State		Telephone		271-759		Fax	(414) 27	71-577	0	
I hereby declare that al and belief are believed statements and the like States Code and that so	d to be true; ar e so made are p	nd further tha unishable by	at these fine or	stateme imprisor	ents v	were m t, or bo	ade wit th, unde	h the er §10	knowledo 01 of Titl	ge that willful false e 18 of the United
Name of Sole or First	Inventor:	A petition ha	s boon f	lad for th	nio un	signed	inventor	<u> </u>		
	first and middle (if		s been n	lied for ti			ame or S		ne	
Hector F.			•	DeL	uca					
Inventor's Signature	en J. J.) h				Date	12	16	03	
RESIDENCE: City	Deerfield	State	WI	Countr	y	USA		Citize	enship	USA
POST OFFICE ADDRE	SS 1809 Hig	hway BB	,	.						
City Deerfield	··· - ·- ·-	State	WI	Zip	5353	1	Cou	ntry	USA	
Name of Additional Jo	oint Inventor, if a	nv:		A petitio	n has	s been t	filed for	this un	signed in	ventor
	first and middle [if						ame or S			
Masato				Shin	nizu				•	
Inventor's Signature						Date				
RESIDENCE: City	Sinagawa-ku	State	Tokyo	Cou	ntry	Japar	<u>1</u>	Citize	enship	Japan
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City Sinagawa-ku	· · · · · · · · · · · · · · · · · · ·		Tokyo	Zip	140-0		Cou	ntry	Japan	
☑ Additional inventors	are being named	d on supplem	ental sh	eet(s) att	ache	d hereta	n			

Please type a plus sign (+) inside this box [+]

DECLARATION								AD	DITIONAL Suppleme			\ - \	
Name of Additional Joint Inventor, if any: Given Name (first and middle [if any])								A petition has been filed for this unsigned inventor Family Name or Surname					
Sachiko							Yamada						
Invento Signat								Date					
RESID	ENCE: City	Hachioj	i-shi	State	Tokyo	Count	ry	Japan	Cit	ize	nship	Japan	
POST	OFFICE ADDE	RESS	1227-4 A-12	18 Hatsuz	zawa-ma	chi							
City	Hachioji-shi		Tokyo	Zip	19	93-0845	Country		Japan				
☐ Additional inventors are being named on supplemental she							che	d hereto.					

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PTO/SB/01					et Number		5-00929		
(8/96)			First	Named Ir			ector F. DeLuca		
	LARATION	D - 1 1					IF KNOWN		
Declaration	OR	Declaration	7,000	cation Nu	ımber		722,858		
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As a below named inve	entor, i nereb	y declare tha	τ:						
My residence, post offic	ce address, a	and citizenshi	p are as state	d below	next to my nai	me.			
I believe I am the origi plural names are listed entitled:	nal, first and d below) of	I sole invento the subject r	or (if only one natter which i	name is is claime	listed below) d and for whi	or an ich a _l	original, first and joint patent is sought on the	inventor (if invention	
Synthesis of A-R	ing Syntho	n of 19-Nor-	1α,25-Dihyd	roxyvita	min D ₃ from	(D)-G	ilucose		
			(Title of the	e Inventio	on)				
the specification of which is attached hereto	ch								
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☑ was filed on (MM/D	D/YYYY)	11/26/200)3	as Ur	nited States A	pplicat	tion Number or PCT		
International Number (if applicable).	10/722	2,858	and was am	ended or	(MM/DD/YY	YY) [
,				its of the	above identifi	ed spe	ecification, including the	claims, as	
	olications, ma	aterial inform	ation which be	ecame av	ailable betwe	en the	ed in 37 C.F.R. 1.56, ince filing date of the prior a		
							365(b) of any foreign app	olication(s)	
for patent, inventor's or least one country other	plant breed than the Ur for patent, ir	er's rights cer nited States o nventor's or b	tificate(s), or f f America, list reeder's right	§365(a) of ted below s certifica	of any PCT into and have als	ernations of the second	onal ápplication which d ntified below, by checkir r international applicatio	esigned at g the box,	
Prior Foreign Application Number(s)		untry	Foreign Filir (MM/DD/Y	ng Date	Priority No Claimed		Copy Attached YES NO	1?	
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☐ Additional foreign ap	oplication nu	mbers are lis	ted on a supp	lemental	priority sheet	attach	ed hereto:		
below.	efit under 11	tie 35, United	States Code	§119(e)	of any Unite	d State	es provisional application	n(s) listed	
Application Numb	er(c)	Filing D	ate (MM/DD/Y	~~~	Addit	lional r	orovisional		
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all busines	ed inventor, ss in the Pat	nereb	y appoint ti Trademark	ne tollowing c Office conr	attorney nected the	(s) and erewith	/or age :	ent(s) t	o prosec	ute this	applicat	ion and to transact
	Name		Regist	ration		Nai					Registra	
Daniel D. I	Fottorlov		Num 20,3		locon	h D. Kı	ıbom				Numb 40,68	
George H.			25,9			y S. So					35,68	
Gary A. Es			29,3		Peter	T. Hols	sen				54,18	0
Thomas M Michael E.			28,9 28,1			T. Ole n L. Fa	jniczak				54,85 27,70	
	Jochman, J	r.	25,0 25,0		VVIIIIAI	11 L. 1 G	IIIK				21,70	. .
☐ Additio	nal attorney	(s) and/	or agent(s)	named on a	ı a supplen	nental s	sheet a	ttache	d hereto.			
	direct all co				homas M	. Wozr	ıy, Reg	. No. 2	29,822			
Address Address	Andrus, S		Starke & Sa in Avenue,				-					
City	Milwaukee		in Avenue,	State	Wisco	nsin	T	Zip	53202-4	1178		
Country	United Sta			Telephone		271-7	590	Fax	(414) 27		0	
and belief statements	are believ s and the li	ed to be ke so m	e true; ar nade are p	nd further th unishable b	at these y fine or	stater impris	nents v	were r t, or b	made wit oth, unde	h the 'er §100	knowledg 01 of Titl	ade on information ge that willful false e 18 of the United ent issued thereon.
Name of S	Sole or Firs	t Invent	or: D	A petition ha	e boon f	ilad for	thic un	signor	d inventor	-		
	Siven Name				as been i	lieu ioi			lame or S		ie	
Hector	F.	•••				De	Luca			· · · · · · · · · · · · · · · · · · ·	-	· «»
Inventor's Signature								Date				
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City De	eerfield			State	WI	Zip	5353	31	Cou	ntry	USA	
Name of A	Additional .	loint Inv	ventor if a	mv:		A noti	tion ha	s heen	filed for	thic un	signed in	ventor
	iven Name					Apen			lame or S			veritor
Masato)	•			-	Shi	imizu	ı				
Inventor's Signature	Mas	ato	Shin	izur	P. 0 A			Date	Dec.	10,	200.	ડ
RESIDEN	7	Sinaga		State	Tokyo	Co	ountry	Japa			enship	Japan
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	nagawa-ku			State	Tokyo	Zip	140-	0014	Cou	intrv	Japan	
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	Supplemental Sheet										
Name of Additional Given Name		A petition has been filed for this unsigned inventor Family Name or Surname									
Sachiko					Yamada						
Inventor's Signature					Date						
RESIDENCE: City	Hachioj	i-shi	State	Tokyo	Countr	y	Japan	Citiz	enship	Japan	
POST OFFICE ADD	RESS	1227-4 A-12	18 Hatsuz	zawa-mad	chi						
City Hachioji-shi	Tokyo	Zip	19	3-0845	Country	Japan					
☐ Additional inventors are being named on supplemental she						che	d hereto.				

Type a plus sign (+) inside this box [+]

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE PTO/SB/01 Attorney Docket Number 1256-00929 (8/96)First Named Inventor Hector F. DeLuca **DECLARATION COMPLETE IF KNOWN** Declaration Declaration Application Number OR 10/722,858 □ Submitted with Submitted after Filing Date November 26, 2003 Initial Filing Initial Filing **Group Art Unit** 1621 **Examiner Name** As a below named inventor, I hereby declare that: My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Synthesis of A-Ring Synthon of 19-Nor-1α, 25-Dihydroxyvitamin D₃ from (D)-Glucose (Title of the Invention) the specification of which ☐ is attached hereto 11/26/2003 was filed on (MM/DD/YYYY) as United States Application Number or PCT 10/722,858 and was amended on (MM/DD/YYYY) International Number (if applicable). I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under Title 35. United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or §365(a) of any PCT international application which designed at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed. Prior Foreign Foreign Filing Date **Priority Not** Copy Attached? Country Application Number(s) (MM/DD/YYYY) Claimed YES NO ☐ Additional foreign application numbers are listed on a supplemental priority sheet attached hereto: I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below. Application Number(s) Filing Date (MM/DD/YYYY) Additional provisional ☐ Application numbers are listed on a supplemental priority sheet attached hereto.

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internation the claims provided b material to date of the	al application of this apply the first per patentabile prior applications.	ion desigoplication paragraphity as defication ar	nated the Unite is not disclose n of Title 35, Un ined in Title 37, ad the national o	ed States ed in the sited Stat , Code o or PCT in	of Ame prior Ues Code Federa ternation	rica, listed by Jnited State \$\frac{1}{2}\$ \$112. I ack of Regulation the state of t	elow and sof PC considerated with the soft point of the soft point	d, insofa I Intern je the di which be	ar as the subject lational applicational application at the subject of the subjec	§365© of any PCT ct matter of each of tion in the manner nformation which is e between the filing		
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LI Additio	nal U.S. or	PCT inte	rnational applic	ation nur	mbers a	e listed on a	supplen	nental p	riority sheet atta	ached hereto.		
As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:												
		itent and			cted the					······		
r	lame		Registration	n		Name			Registra			
Daniel D.	Eattorlov		Number		leseni	n D. Kubam		Number 40,689				
George H.			20,323 25,927			n D. Kubom S. Sokol	- 1		40,68 35,68			
Gary A. Es			29,376			T. Holsen			54,18			
Thomas M			28,922			T. Olejnicza	, I		54,88			
Michael E	•		28,120			n L. Falk	`	•	27,70			
	Jochman,	Jr.	25,058		*********	and			27,7	55		
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☐ Additio	nal attorne	y(s) and/	or agent(s) nam	ed on a	supplem	ental sheet	attached	hereto.		•		
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Address			Starke & Sawall					·				
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City	Milwauke	е	Sta	te	Wisco	nsin		53202-4				
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· ·	olven Name	e (first an	d middle [if any]	1)		F	amily Na	ime or S	Surname			
Hector	F.					DeLuca	1	-				
Inventor's												
Signature							Date					
RESIDEN	CE: City	Deerfie	ld	State	WI	Country	USA		Citizenship	USA		
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City	Deerfield		State	Zip	Zip 53531 Country USA							
Name of Additional Joint Inventor, if any: Given Name (first and middle [if any]) A petition has been filed for this unsigned inventor Family Name or Surname												
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Invento Signati								Date		•		
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City	City Sinagawa-ku State Tokyo Zip 140-0014 Country Japan											
⊠ Ad	Additional inventors are being named on supplemental sheet(s) attached hereto.											

			ADDITIONAL INVENTOR(S) Supplemental Sheet									
Name	of Additional Given Name		A petition has been filed for this unsigned inventor Family Name or Surname									
Sach	iko					Yamada						
Invento Signat	_	50	le_		•	Date December 8, 2003						
RESID	ENCE: City	Hachioj	i-shi	State	Tokyo	Countr	ry	Japan		Citize	enship	Japan
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City	Hachioji-shi	Tokyo	Zip	19	93-0845	Cou	ntry	Japan				
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